BRAIN RESEARCH

VOL. 923 NOS. 1,2 **CONTENTS** **27 DECEMBER 2001**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – EMBASE/Excerpta Medica – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Elsevier BIOBASE/Current Awareness in Biological Sciences. Full text available in ScienceDirect® and Neuroscion.

Announcements

Brain Research Interactive Young Investigator Awards v

Call for Papers – Gene Expression Patterns vi

Research reports

Filamentous actin is concentrated in specific subpopulations of neuronal and glial structures in rat central nervous system
F. Capani, M.H. Ellisman, M.E. Martone (USA) 1

A role for spinal, but not supraspinal, α_2 adrenergic receptors in the actions of improgan, a powerful, non-opioid analgesic
K. Svokos, J.W. Nalwalk, R. Leurs, W.M.P.B. Menge, H. Timmerman, L.B. Hough (USA, The Netherlands) 12

Integration of information from both eyes by single neurons of nucleus rotundus, ectostriatum and lateral neostriatum in the zebra finch (*Taeniopygia guttata castanotis* Gould)
A. Schmidt, H.-J. Bischof (Germany) 20

Caudate-putamen and nucleus accumbens extracellular acetylcholine responses to methamphetamine binges
R. Kuczenski, D.S. Segal (USA) 32

Quantitative analysis of glutamic acid decarboxylase-immunoreactive neurons in the anterior thalamus of the human brain
G. Dixon, C.G. Harper (Australia) 39

Extracellular glutamate, aspartate and arginine increase in the ventral posterolateral thalamic nucleus during nociceptive stimulation
E. Silva, B. Quiñones, N. Freund, L.E. Gonzalez, L. Hernandez (Venezuela) 45

In vitro stimulation of oxidative stress in cerebral cortex of rats by the guanidino compounds accumulating in hyperargininemia
A. Terezinha de Souza Wyse, C. Serra Bavaresco, M. Elisabeth Kienzle Hagen, D. Delwing, C. Milton Duval Wannmacher, C. Severo Dutra-Filho, M. Wajner (Brazil) 50

Acidic stimuli activates two distinct pathways in taste receptor cells from rat fungiform papillae
L. Liu, S.A. Simon (USA) 58

Changes in ^{14}C-labeled 2-deoxyglucose brain uptake from nickel-induced epileptic activity
R.M. Cooper, C.E. Legare, G. Campbell Teskey (Canada) 71

Inhibition of glucose transport in PC12 cells by the atypical antipsychotic drugs risperidone and clozapine, and structural analogs of clozapine
T.D. Ardizzone, R.J. Bradley, A.M. Freeman III, D.S. Dwyer (USA) 82

c-*fos* Expression and NADPH-d reactivity in spinal neurons after fatiguing stimulation of hindlimb muscles in the rat
A.I. Pilyavskii, V.A. Maisky, I. Kalezic, M. Ljubisavljevic, A.I. Kostyukov, U. Windhorst, H. Johansson (Ukraine, Sweden, Germany) 91

Further studies on the activation of rat median raphe serotonergic neurons by inescapable sound stress
W.P. Daugherty, K.C. Corley, T.-H. Phan, M.C. Boadle-Biber (USA) 103

Change in excitability and phenotype of substance P and its receptor in cat Aβ sensory neurons following peripheral inflammation
G.-Y. Xu, Z.-Q. Zhao (PR China, USA) 112

The urotensin II receptor is expressed in the cholinergic mesopontine tegmentum of the rat
S.D. Clark, H.-P. Nothacker, Z. Wang, Y. Saito, F.M. Leslie, O. Civelli (USA) 120

Extracellular serotonin levels in the medullary reticular formation during normal sleep and after REM sleep deprivation
C.A. Blanco-Centurion, R.J. Salin-Pascual (Mexico) 128

Simultaneous glutamate and γ-aminobutyric acid release within ventrolateral medulla during skeletal muscle contraction in intact and barodenervated rats
T. Ishide, T.J. Maher, W.J. Pearce, S.M. Nauli, P. Chaiyakul, A. Ally (USA, Japan) 137

Evidence for two populations of rat spinal dorsal horn neurons excited by urinary bladder distension
T.J. Ness, P. Castroman (USA) 147

Neurokinin B potentiates ATP-activated currents in rat DRG neurons
M.-J. Wang, S.-H. Xiong, Z.-W. Li (PR China) 157

Glucocorticoids exacerbate peroxynitrite mediated potentiation of glucose deprivation-induced death of rat primary astrocytes
C.Y. Shin, J.-W. Choi, E.S. Jang, J.H. Ryu, W.-K. Kim, H.-C. Kim, K.H. Ko (South Korea) 163

(Contents continued inside)

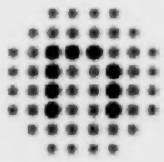
0006-8993(20011227)923:1/2;1-O

(contents continued)

Effect of acute binge cocaine on levels of extracellular dopamine in the caudate putamen and nucleus accumbens in male C57BL/6J and 129/J mice
Y. Zhang, S.D. Schlussman, A. Ho, M. Jeanne Kreek (USA) 172
Effects of glutamate receptor agonist on extracellular glutamate dynamics during moderate cerebral ischemia
T. Kunimatsu, S. Asai, K. Kanematsu, T. Kohno, T. Misaki, K. Ishikawa (Japan) 178

Short communications
Projections from the red nucleus to the parvicellular reticular formation and the cervical spinal cord in the rat, with special reference to innervation by branching axons
Y. Yasui, S. Yokota, K. Ono, T. Tsumori (Japan) 187
Nitric oxide mediates leptin-induced preovulatory luteinizing hormone and prolactin surges in rats
H. Watanobe, H.B. Schiöth (Japan, Sweden) 193

Author index 198



To view articles from this journal, visit Neuroscion,
the comprehensive neuroscience information service on the web.

Register today at **www.neuroscion.com**